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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/698,419



DATE: 11/20/2000

TIME: 14:16:10

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58 <220> FEATURE:

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60 <222> LOCATION: (1)

52 <213> ORGANISM: Homo sapiens

56 <222> LOCATION: (157)..(1122)

59 <221> NAME/KEY: misc_feature

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61 <223> OTHER INFORMATION: N = A or C or G or T

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/698,419

DATE: 11/20/2000 TIME: 14:16:10

Input Set : A:\Pto.amc

Output Set: N:\CRF3\11202000\1698419.raw

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RAW SEQUENCE LISTING DATE: 11/20/2000 PATENT APPLICATION: US/09/698,419 TIME: 14:16:10

Input Set : A:\Pto.amc

Output -Set: N:\CRF3\11202000\1698419.raw

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   141 Ser Ser Ala Asp Ala Arg Gln Lys Ala Phe Asn Thr Cys Thr Ala His
                         235
                                                240
   144 att tgt gcc att gtt ttc tcc tat act.cca gct ttc ttc tcc ttt ttt
   145 The Cys Ala The Val Phe Ser Tyr Thr Pro Ala Phe Phe Ser Phe Phe
                                          . 255
                    250
   148 tee cac ege tit ggg gaa cac ata ate eec eet tet ige cac ate att
   149 Ser His Arg Phe Gly Glu His Tle Ile Pro Pro Ser Cys His Ile Ile
  150 265
                                       270
   152 gta gec aat att tat etg etc eta eea eec act atg aac eet att gte
                                                                                     1038
   153 Val Ala Asn Ile Tyr Leu Leu Leu Pro Pro Thr Met Asn Pro Ile Val
                             285
   156 tat ggg gtg aaa acc aaa cag ata cga gac tgt gtc ata agg atc ctt
                                                                                     1086
   157 Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp Cys Val Ile Arg Ile Leu
158 295 300 305 310
   160 toa ggt tot aag gat acc aaa too tac ago atg tga.atgaacactt
   161 Ser Gly Ser Lys Asp Thr Lys Ser Tyr Ser Met
                       315
                                              320
   164 gecaggagtg agaagagaag gaaagaatta cttctatttg cetettatgc aggagttcat 1192
-> 166 <u>aaaatettte tggaagtact gtattgatca caaaatggag tttgmtgact ggtgattet 12</u>52
-> 168 <u>caataagtac ettgggaate tnacatcact ggaagg</u>cca ccacatttet ataaat 1308
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   173 <212> TYPE: PRT
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                           5 .
  180 Asn Gly Val Pro Gly Leu Glu Asp Thr Gln Leu Trp Ile Ser Phe Pro 181 20 25
  183 Phe Cys Ser Met Tyr Val Val Ala Met Val Gly Asn Cys Gly Leu Leu 184 $35$ 40 45
  186 Tyr Leu Ile His Tyr Glu Asp Ala Leu His Lys Pro Met Tyr Tyr Phe 187 50 55 60
  189 Leu Ala Met Leu Ser Phe Thr Asp Leu Val Met Cys Ser Ser Thr Tle 190 65 70 75 80
  192 Pro Lys Ala Leu Cys Ile Phe Trp Phe His Leu Lys Asp Ile Gly Phe 193 \phantom{\bigg|}85\phantom{\bigg|}90\phantom{\bigg|}95\phantom{\bigg|}
  195 Asp Glu Cys Leu Val Gln Met Phe Phe Ile His Thr Phe Thr Gly Met 196 100\, 105 110\,
  198 Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp Arg Tyr Val Ala Ile
199 115 120 125
  201 Cys Tyr Pro Leu Arg Tyr Ser Thr Ile Leu Thr Asn Pro Val Ile Ala 202 \phantom{-}130\phantom{0} \phantom{-}135\phantom{0} \phantom{-}140\phantom{0}
  204 Lys Val Gly Thr Ala Thr Phe Leu Arg Gly Val Leu Leu Ile Ile Pro 205 145 150 150 155 166
  205 145
                           150 155
  207 Phe Thr Phe Leu Thr Lys Arg Leu Pro Ser Cys Arg Gly Asn Ile Leu 208 $165$ $170$ $175$
  210 Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Leu Ser Cys Gly
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 RAW SEQUENCE LISTING
 DATE: 11/20/2000

 PATENT APPLICATION: US/09/698,419
 TIME: 14:16:10

Input Set : A:\Pto.amc |
Output Set: N:\CRF3\11202000\1698419.raw

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214 195 200 205
216 Gly Gly Phe Asp Ile Leu Cys Ile Thr Tle Ser Tyr Thr Met Ile Leu 217 210 215 220
219 Arg Ala Val Val Ser Leu Ser Ser Ala Asp Ala Arg Gln Lys Ala Phe 220 225 230 235 235
222 Asn Thr Cys Thr Ala His Tle Cys Ala Ile Val Phe Ser Tyr Thr Pro
223 245 250
225 Ala Phe Phe Ser Phe Phe Ser His Arg Phe Gly Glu His Ile Ile Pro 226 260 265 270
228 Pro Ser Cys His Ile Ile Val Ala Asn Ile Tyr Leu Leu Leu Pro Pro 229 275 280 285
231 Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp 232 290 295 300
234 Cys Val Ile Arg Ile Leu Ser Gly Ser Lys Asp Thr Lys Ser Tyr Ser 235 305 310 315 320 237 Met
237 Met..
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241 <212> TYPE: DNA
242 <213> ORGANISM: Homo sapiens
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245 <221> NAME/KEY: CDS
246 <222> LOCATION: (1)..(1014)
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                                           . 10
255 act att gat gac ttc.cgc aat caa gtg tat tcc acc ttg tac tct atg
256 Thr Ile Asp Asp Phe Arg Asn Gln Val Tyr Ser Thr Leu Tyr Ser Met 257 20 25 30
259 ato tot gtt gta gge tto tit gge aat gge tit gtg etc tat gte etc
260 Hie Ser Val Val Gly Phe Phe Gly Asn Gly Phe Val Leu Tyr Val Leu
26.1 35 40
                                                         45
263 ata aaa acc tat cac aag aag tea gee tte eaa gta tac atg att aat
264 lle Lys Thr Tyr His Lys Lys Ser Ala Phe Gln Val Tyr Met Ile Asn 265 \phantom{+}50\phantom{+}50\phantom{+}55\phantom{+}
267 tha goa gta goa gat cha cht tigt gig tigc aca chi cot che cgt gig
268 Leu Ala Val Ala Asp Leu Leu Cys Val Cys Thr Leu Pro Leu Arg Val
                          70
                                                75
271 gto tat tat gtt cac aaa ggc att tgg ctc ttt ggt gac ttc ttg tgc
272 Val Tyr Tyr Val His Lys Gly Ile Trp Leu Phe Gly Asp Phe Leu Cys.
273 90 95
275 ego etc ago aco tat get ttg tat gtc aac etc tat tgt ago atc ttc
276 Arg Leu Ser Thr Tyr Ala Leu Tyr Val Asn Leu Tyr Cys, Ser Ile Phe 277. 100 \hspace{1.5cm} 105 \hspace{1.5cm} 105
279 tht atg aca god atg ago the the egg tgc att goa att gtt the coa
280 Phe Met Thr Ala Met Ser Phe Phe Arg Cys Ile Ala Ile Val Phe Pro
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DATE: 11/20/2000 RAW SEQUENCE LISTING TIME: 14:16:10 PATENT APPLICATION: US/09/698,419

Input Set : A:\Pto.amc
Output Set: N:\CRF3\11202000\1698419.raw

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284	Val	Gln	Asn	Lle	Asn	1.eu	Val	Thr.	Gln	Lys	Lys	Al.a	Arg	Phe	Va.l	Cys		
285		130					135			•		140						
287	gta	ggt	att	tgg	att	ttt	gtg	att.	ttg	acc	agt	tct	cca	ttt	cta	atg	4 8	30
			Tle															
289	1.45	-		-		1.50					155					160		
291	qec	aaa	cca	çaa	aaa	gat.	gag	aaa	aat	aat.	acc	aag	tgc	ttt	gag	ccc	52	28
292	Ala	Lys	Pro	Gln	Lys	Asp	Glu	Lys	Asn	Asn	Thr	Lys	Cys	Phe	Glu	Pro		
293					165	-		-		1.70					175			
295	cca	caa	gac	aat	caa	act	aaa	aat	čat	gtt	ttg	gtc	ttg	cat	tat	gtg	5	76
			Asp															
297				1.80			7		185					190	-			
299	tca	t.t.q	ttt	qtt	qqc	ttt	atc	atc	cct	ttt	gtt	att	ata	att	gt.c	tgt	62	24
			Phe															
301			195					200					205					
303	tac	aca	atq	atc	att	ttg	acc	tta	ċta	aaa	aaa	tca	atg	aaa	aaa	aat	6	72
304	Tyr	Thr	Met	Tle	Tle	Leu	Thr	Leu	Leu	Lys	Lys	Ser	Met	Lys	Lys	Aśn		
305	•	21.0					215				-	220						
307	ctq	tca	agt	cat	aaa	aaq	get	ata	gga	atg	atc	atg	gtc	gtg	acc	gct	72	0.5
			Ser															
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			Leu															
3.1.3					245				•	250					255			
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			Phe															
317				260					265		-	-		270		_		
319	atq	caq	aaq	tcc	gtg	gtc	ata	acc	titg	tct	ct.g	get	gca	t.cc	aat	t.gt	86	54
			Lys															
321			275					280					285					
323	tgc	ttt	qac	cct	ctc	cta	tat	ttc	ttt	tct	ggg	ggt	aac	ttt	agg	aaa	9.1	2
324	Cys	Phe	Asp	Pro	Leu	Leu	Tyr	Phe	Phe	Ser	G1.7	Gly	Asn	Phe	Arg	Lys		
325	-	290	-	٠,			295				_	300						
327	agg	ctq	tet.	aca	ttt	aga	aag	cat	tct	ttg	tcc	agc	gtg	act	tat	gtá	96	0
			'Se.r															•
329	305					310	-				315					320		
331	ccc	aga	aag	aaq	qcc	tet	ttg	cca	gaa	aaa	gga	gaa	gaa	ata	tgt.	aaa	1.0	800
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333		•	-	-	325					330					335			
335	gta	tag															10	14
336	-	, Š				•												
339	<210)> SI	io m	NO:	4													
			ING T															
			CPE:											* · · .				
			RGANI		Homo	sap	oi.ens	\$										
•			EQUE															
			Glu			Asn	Leu	Thr	Va.l.	Ser	Ser	Ala	Thr	Cys	Hi.s	Asp		
346	1	-			5					1.0				-	15			
								-										



Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 11/20/2000

PATENT APPLICATION: US/09/698,419

TIME: 14:16:11

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Output Set: N:\CRF3\11202000\1698419.raw

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OIPE

RAW SEQUENCE LISTING DATE: 11/13/2000 PATENT APPLICATION: US/09/698,419 TIME: 15:48:16

Input Set : A:\6276NCPseq.txt

Output Set: N:\CRF3\11132000\1698419.raw

Does Not Comply Corrected Diskette Needed

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4 <110> APPLICANT: Vogeli, Gabriel
             Wood, Linda S.
     6 Merchant, Kalpana
8 <120> TITLE OF INVENTION: G PROTEIN-COUPLED RECEPTORS EXPRESSED IN BRAIN
     10 <130> FILE REFERENCE: 28341/6276NCP
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/698,419
C--> 13 <141> CURRENT FILING DATE: 2000-10-27
     15 <150> PRIOR APPLICATION NUMBER: US 09/481,794
    16 <151> PRIOR FILING DATE: 2000-01-12
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                                   105
                                                       110
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   366 Phe Met Thr Ala Met Ser Phe Phe Arg Cys Ile Ala Ile Val Phe Pro
   367 115
                        120
                                                125
   369 Val Gln Asn Ile Asn Leu Val Thr Gln Lys Lys Ala Arg Phe Val Cys
   370 130 135 140
   372 Val Gly Ile Trp Ile Phe Val Ile Leu Thr Ser Ser Pro Phe Leu Met
373 145 . 150 155 160
   375 Ala Lys Pro Gln Lys Asp Glu Lys Asn Asn Thr Lys Cys Phe Glu Pro
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   378 Pro Gln Asp Asn Gln Thr Lys Asn His Val Leu Val Leu His Tyr Val
   379 180
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                           185
   382 Ser Leu Phe Val Gly Phe Ile Ile Pro Phe Val Ile Ile Ile Val Cys
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   383 195
   385 Tyr Thr Met Ile Ile Leu Thr Leu Leu Lys Lys Ser Met Lys Lys Asn 386 210 215 220
   388 Leu Ser Ser His Lys Lys Ala Ile Gly Met Ile Met Val Val Thr Ala 389 225 230 230 235 240
   391 Ala Phe Leu Val Ser Phe Met Pro Tyr His Ile Gln Arg Thr Ile His 392 245 250 255
   394 Leu His Phe Leu His Asn Glu Thr Lys Pro Cys Asp Ser Val Leu Arg
   395 260
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                                                    270
   397 Met Gln Lys Ser Val Val Ile Thr Leu Ser Leu Ala Ala Ser Asn Cys
   398 275 280
                                              285
   400 Cys Phe Asp Pro Leu Leu Tyr Phe Phe Ser Gly Gly Asn Phe Arg Lys 401 290 295 300
  403 Arg Leu Ser Thr Phe Arg Lys His Ser Leu Ser Ser Val Thr Tyr Val 404 305 31.0 \qquad \qquad 315 \qquad \qquad 320
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DATE: 11/13/2000

RAW SEQUENCE LISTING

VERIFICATION SUMMARY

DATE: 11/13/2000

PATENT APPLICATION: US/09/698,419

TIME: 15:48:18

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L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:344 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4 differs:2 L:546 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5 L:1176 M:341 W: (46) "n" or "Xaa" used, for SEQ TD#:13 L:1178 M:341 W: (46) "n" or "Xaa" used, for SEQ TD#:13 L:2044 M:283 W: Missing Blank Line separator, <220> field identifier L:2448 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:24 SEQ:60